

Author Index to Volume 212

Abresch, E.C., see A. van der Est	212 (1993) 561
Adamo, C., see V. Barone	212 (1993) 5
Adhikari, S., see P. Dutta	212 (1993) 677
Aksefrod, L., H.J. Byrne, C. Thomsen, A. Mittelbach and S. Roth, Raman studies of photochemical reactions in fullerene films	212 (1993) 384
Aleksandrov, N.L., Three-body electron attachment to O ₂ (a'1Δ _g)	212 (1993) 409
Al-Hassan, K.A., U.K.A. Klein and A. Suwaiyan, Normal and twisted intramolecular charge-transfer fluorescence of 4-dimethylaminobenzonitrile in α-cyclodextrine cavities	212 (1993) 581
Allman, S.L., see R.B. Jones	212 (1993) 451
Arai, T., Y. Furuya, H. Furuuchi and K. Tokumaru, One-way Z→E isomerization around the double bond of N-methoxy-1-(2-anthryl)ethanimine in the excited triplet state. Direct observation of one-way isomerization from Z triplet to E triplet of the C=N bond	212 (1993) 597
Asaf, U., S. Felps, K. Rupnik and S.P. McGlynn, A pressure-shift study of electron scattering in dense hydrogen-argon gas mixtures	212 (1993) 326
Azumi, T., see T. Ikeyama	212 (1993) 551
Baer, M., see A. Baram	212 (1993) 649
Balasubramanian, K., see S. Roszak	212 (1993) 150
Balková, A., see L. Meissner	212 (1993) 177
Bally, T., L. Truttmann, S. Dai, J.T. Wang and F. Williams, The radical cation of 1,4-dihydropentalene and its photochemical formation from bicyclo[3.3.0]octa-2,6-diene-4,8-diyl cation	212 (1993) 141
Baram, A., I. Last and M. Baer, Quantum-mechanical cross sections for the D+H ₂ and H+D ₂ reactive systems. Application of the negative imaginary potentials within the j _z approximation	212 (1993) 649
Barone, V., C. Adamo and N. Russo, Density functional approach to the structures and EPR parameters of open shell systems. The case of fluorovinyl radicals	212 (1993) 5
Bartlett, R.J., see L. Meissner	212 (1993) 177
Bauschlicher Jr., C.W., see M. Sodupe	212 (1993) 624
Belinky, A., see A. Fernández	212 (1993) 201
Ben-Itzhak, I., I. Gertner, O. Heber and B. Rosner, Formation and mean lifetime measurements of the long-lived doubly charged HeNe ²⁺ rare-gas dimer	212 (1993) 467
Berezhkovskii, A.M. and V.Yu. Zitserman, Multi-dimensional Kramers theory of the reaction rate with highly anisotropic friction. Energy diffusion for the fast coordinate versus overdamped regime for the slow coordinate	212 (1993) 413
Bhattacharyya, S.P., see P. Dutta	212 (1993) 677
Biermann, M., see M. Neeb	212 (1993) 205
Bigot, B., see S.A. Borshch	212 (1993) 398
Bird, D.M., L.J. Clarke, M.C. Payne and I. Stich, Dissociation of H ₂ on Mg(0001)	212 (1993) 518
Bittl, R., see A. van der Est	212 (1993) 561
Blake, G.A., see P.A. Stockman	212 (1993) 298

Author Index to Volume 212

Abresch, E.C., see A. van der Est	212 (1993) 561
Adamo, C., see V. Barone	212 (1993) 5
Adhikari, S., see P. Dutta	212 (1993) 677
Aksefrod, L., H.J. Byrne, C. Thomsen, A. Mittelbach and S. Roth, Raman studies of photochemical reactions in fullerene films	212 (1993) 384
Aleksandrov, N.L., Three-body electron attachment to O ₂ (a'1Δ _g)	212 (1993) 409
Al-Hassan, K.A., U.K.A. Klein and A. Suwaiyan, Normal and twisted intramolecular charge-transfer fluorescence of 4-dimethylaminobenzonitrile in α-cyclodextrine cavities	212 (1993) 581
Allman, S.L., see R.B. Jones	212 (1993) 451
Arai, T., Y. Furuya, H. Furuuchi and K. Tokumaru, One-way Z→E isomerization around the double bond of N-methoxy-1-(2-anthryl)ethanimine in the excited triplet state. Direct observation of one-way isomerization from Z triplet to E triplet of the C=N bond	212 (1993) 597
Asaf, U., S. Felps, K. Rupnik and S.P. McGlynn, A pressure-shift study of electron scattering in dense hydrogen-argon gas mixtures	212 (1993) 326
Azumi, T., see T. Ikeyama	212 (1993) 551
Baer, M., see A. Baram	212 (1993) 649
Balasubramanian, K., see S. Roszak	212 (1993) 150
Balková, A., see L. Meissner	212 (1993) 177
Bally, T., L. Truttmann, S. Dai, J.T. Wang and F. Williams, The radical cation of 1,4-dihydropentalene and its photochemical formation from bicyclo[3.3.0]octa-2,6-diene-4,8-diyl cation	212 (1993) 141
Baram, A., I. Last and M. Baer, Quantum-mechanical cross sections for the D+H ₂ and H+D ₂ reactive systems. Application of the negative imaginary potentials within the j _z approximation	212 (1993) 649
Barone, V., C. Adamo and N. Russo, Density functional approach to the structures and EPR parameters of open shell systems. The case of fluorovinyl radicals	212 (1993) 5
Bartlett, R.J., see L. Meissner	212 (1993) 177
Bauschlicher Jr., C.W., see M. Sodupe	212 (1993) 624
Belinky, A., see A. Fernández	212 (1993) 201
Ben-Itzhak, I., I. Gertner, O. Heber and B. Rosner, Formation and mean lifetime measurements of the long-lived doubly charged HeNe ²⁺ rare-gas dimer	212 (1993) 467
Berezhkovskii, A.M. and V.Yu. Zitserman, Multi-dimensional Kramers theory of the reaction rate with highly anisotropic friction. Energy diffusion for the fast coordinate versus overdamped regime for the slow coordinate	212 (1993) 413
Bhattacharyya, S.P., see P. Dutta	212 (1993) 677
Biermann, M., see M. Neeb	212 (1993) 205
Bigot, B., see S.A. Borshch	212 (1993) 398
Bird, D.M., L.J. Clarke, M.C. Payne and I. Stich, Dissociation of H ₂ on Mg(0001)	212 (1993) 518
Bittl, R., see A. van der Est	212 (1993) 561
Blake, G.A., see P.A. Stockman	212 (1993) 298

Bondybey, V.E., see N. Caspary	212 (1993) 329
Borshch, S.A. and B. Bigot, Magnetic properties of the mixed-valence heteropoly blues with a Keggin structure	212 (1993) 398
Bowers, M.T., see G. von Helden	212 (1993) 241, 247
Bradshaw, A.M., see M. Neeb	212 (1993) 205
Buckingham, A.D. and R.M. Olegário, Hyperfine coupling in alkaline earth monofluorides. Limitations of the ionic model	212 (1993) 253
Buenerk, R.J., see Y. Li	212 (1993) 185
Burgard, C., see S.A. Dikanov	212 (1993) 493
Burstein, Z., see R. Gvishi	212 (1993) 463
Byrne, H.J., see L. Akselrod	212 (1993) 384
Canet, D., J.B. Robert and P. Tekely, ^{13}C NMR relaxation time of fullerene as a function of magnetic field	212 (1993) 483
Carnell, M. and S.D. Peyerimhoff, Assignment of the vacuum-ultraviolet spectrum of ethylene sulphide	212 (1993) 654
Carrington, A., C.A. Leach, A.J. Marr, C.H. Pyne, A.M. Shaw, M.R. Viant and Y.D. West, Near-dissociation microwave spectra of rare-gas diatomic ions	212 (1993) 473
Caspary, N., B.E. Wurfel, A. Thoma, G. Schallmoser and V.E. Bondybey, Infrared identification of the FCS radical in an argon matrix	212 (1993) 329
Cassidei, L., see G. Petrella	212 (1993) 512
Chattaraj, P.K., S. Nath and A.B. Sannigrahi, Ab initio SCF study of maximum hardness and maximum molecular valency principles	212 (1993) 223
Chen, C.H., see R.B. Jones	212 (1993) 451
Chernia, Z. and D. Gill, Reversible self-assembly of fluorescent dimers of anthracene derivative adsorbed on laponite	212 (1993) 57
Cheskis, S., see A.A. Iogansen	212 (1993) 604
Chowdhury, P.K., see A. Kumar	212 (1993) 103
Clarke, L.J., see D.M. Bird	212 (1993) 518
Clarke, L.J., see I. Štich	212 (1993) 617
Colonna, F. and E.M. Evleth, Conformationally invariant modeling of atomic charges	212 (1993) 665
Cong, P., H.P. Deuel and J.D. Simon, Using optical coherence to measure the ultrafast electronic dephasing of large molecules in room-temperature liquids	212 (1993) 367
Cooper, A.I. and M. Poliakoff, High-pressure reactions in polyethylene films, a new development in matrix isolation. The photochemical reaction of $\text{Fe}(\text{CO})_5$ with N_2 and the thermal reaction of $\text{Fe}(\text{CO})_4(\text{N}_2)$ with H_2	212 (1993) 611
Cory, D.G., F.H. Lauken and W.E. Maas, NMR spectroscopy with radial pulses. p- and n-type selection COSY	212 (1993) 487
Cotts, R.M., see S. Miyajima	212 (1993) 277
Croci, M., H.-J. Müschenborn, F. Güttler, A. Renn and U.P. Wild, Single molecule spectroscopy: pressure effect on pentacene in <i>p</i> -terphenyl	212 (1993) 71
Czuchaj, E., F. Rebentrost, H. Stoll and H. Preuss, Calculation of the interaction energies for the ZnHg and ZnCd system	212 (1993) 534
Dai, S., see T. Bally	212 (1993) 141
Dalgaard, E., see H. Koch	212 (1993) 193
Das, G.P., A.T. Yeates and D. Dudis, Vibronic contribution to static molecular hyperpolarizabilities	212 (1993) 671

De Caro, C., see H. van der Laan	212 (1993) 569
Deuel, H.P., see P. Cong	212 (1993) 367
De Vita, A., see I. Štich	212 (1993) 617
Dikanov, S.A., C. Burgard and J. Hüttermann, Determination of the hyperfine coupling with the remote nitrogen in the VO^{2+} -(imidazole) ₄ complex by ESEEM spectroscopy	212 (1993) 493
Ding, L.N., M.A. Young, P.D. Kleiber and W.C. Stwalley, Photofragmentation spectroscopy of Mg_2CO_3^+	212 (1993) 499
Dolson, D.A., A. Liu and K.M. Schreier, Infrared fluorescence observations of electronic to vibrational energy transfer from $\text{Br}^*(4^3\text{P}_{1/2})$ to SO_2	212 (1993) 118
Dudis, D., see G.P. Das	212 (1993) 671
Duncan, J.L., see M.M. Law	212 (1993) 172
Dupré, P. and P.G. Green, Characterization of a large singlet-triplet coupling in the $\tilde{\Lambda}$ state of the acetylene molecule	212 (1993) 555
Dutta, A.K., T.N. Misra and G.B. Talapatra, A Monte Carlo simulation of spectral diffusion in the presence of energetic and substitutional disorder	212 (1993) 637
Dutta, P., S. Adhikari and S.P. Bhattacharyya, Fourier grid Hamiltonian method for bound states of multidimensional systems. Formulation and preliminary applications to model systems	212 (1993) 677
Eberhardt, W., see M. Neeb	212 (1993) 205
Eilers, H., U. Hömmerich, S.M. Jacobsen and W.M. Yen, The near-infrared emission of Cr: Mn_2SiO_4 and Cr: MgCaSiO_4	212 (1993) 109
Engel, V., see Ch. Meier	212 (1993) 691
Ernst, H., D. Freude and I. Wolf, Multinuclear solid-state NMR studies of Brønsted sites in zeolites	212 (1993) 588
Evleth, E.M., see F. Colonna	212 (1993) 665
Feldhaus, J., see M. Neeb	212 (1993) 205
Felps, S., see U. Asaf	212 (1993) 326
Fenistein, S., see S. Jullien	212 (1993) 340
Fernández, A. and A. Belinky, Learning to fold a random RNA chain	212 (1993) 201
Ferrari, A.M., E. Garrone and P. Ugliengo, Ab initio study of the gas-phase equilibrium between $(\text{H}_2\text{O})_4$ and $(\text{H}_2\text{O})_8$	212 (1993) 644
Foggi, P., see C. Taiti	212 (1993) 283
Fowler, G.J.S., see H. van der Laan	212 (1993) 569
Fowler, P.W., H.M. Kelly and A.J. Sadlej, Electric and magnetic properties of the phosphorus trifluoride molecule	212 (1993) 659
Freude, D., see H. Ernst	212 (1993) 588
Frish, M., see R.R. Pappalardo	212 (1993) 12
Fujimoto, N., see Y. Saito	212 (1993) 379
Fujito, T., see T. Fujiwara	212 (1993) 81
Fujiwara, T., A. Ramamoorthy, K. Nagayama, K. Hioka and T. Fujito, Dipolar HO-HAHA under MAS conditions for solid-state NMR	212 (1993) 81
Furuuchi, H., see T. Arai	212 (1993) 597
Furuya, Y., see T. Arai	212 (1993) 597
García, F., see G.G. Lazarev	212 (1993) 319

García de la Vega, J.M. and B. Miguel, Single-exponent Slater function expansions of the He atom is orbital and its isoelectronic series (Chem. Phys. Letters 207 (1993) 270)	
Erratum	212 (1993) 420
Garrett, W.R., see R.B. Jones	212 (1993) 451
Garrone, E., see A.M. Ferrari	212 (1993) 644
Gehlen, M.H., Fluorescence quenching in clusters of reverse micelles	212 (1993) 362
Gertner, I., see I. Ben-Itzhak	212 (1993) 467
Gill, D., see Z. Chernia	212 (1993) 57
Gillan, M.J., see I. Štich	212 (1993) 617
Gotts, N.G., see G. von Helden	212 (1993) 241
Green, P.G., see P. Dupré	212 (1993) 555
Güttler, F., see M. Croci	212 (1993) 71
Gvishi, R., R. Reisfeld and Z. Burshtein, Excited-state absorption in red perylimide dye in solution	212 (1993) 463
 Halvorson, C., R. Wu, D. Moses, F. Wudl and A.J. Heeger, Third harmonic generation spectra of degenerate ground state derivatives of poly(1,6-heptadiyne)	212 (1993) 85
Head, J.D. and S. Jin, Efficient tools for theoretically investigating surface structure applied to Al on graphite	212 (1993) 32
Heber, O., see I. Ben-Itzhak	212 (1993) 467
Heeger, A.J., see C. Halvorson	212 (1993) 85
Heninger, M., see S. Jullien	212 (1993) 340
Hioka, K., see T. Fujiwara	212 (1993) 81
Hirose, C., see S. Sekine	212 (1993) 129
Hirsch, G., see Y. Li	212 (1993) 185
Hoffmann, H., see K.L. Walther	212 (1993) 96
Holmes, J.L., F.P. Lossing and P.M. Mayer, The effects of methyl substitution on the structure and thermochemistry of the cyanomethyl radical and cation	212 (1993) 134
Hömerich, U., see H. Eilers	212 (1993) 109
Honigmann, M., see Y. Li	212 (1993) 185
Howard, S.T. and K. Woźniak, The effect of electron correlation on the structure and properties of the benzenium ion	212 (1993) 1
Hunter, C.N., see H. van der Laan	212 (1993) 569
Hüttermann, J., see S.A. Dikanov	212 (1993) 493
Huzinaga, S. and M. Klobukowski, Well-tempered Gaussian basis sets for the calculation of matrix Hartree-Fock wavefunctions	212 (1993) 260
 Ikeyama, T. and T. Azumi, Triplet spin-sublevel selectivity of the S ₁ -T ₁ intersystem crossing in trans-stilbene	212 (1993) 551
Jogansen, A.A., O.M. Sarkisov, E.V. Zimont, J.A. Seetula, R.S. Timonen and S. Cheskis, Formation of vibrationally excited OH radicals in the O(¹ D) + H ₂ S reaction	212 (1993) 604
Ishikawa, Y., Comment on "Segmented contractions of relativistic Gaussian basis sets"	212 (1993) 547
Ivanov, A.I. and V.A. Mikhaylova, The effect of a magnetic field on outer-sphere electron transfer	212 (1993) 697
 Jacobsen, S.M., see H. Eilers	212 (1993) 109
Jayatilaka, D., Analytic SCF third and fourth derivatives with model potentials	212 (1993) 18

Jensen, V.R. and P.E.M. Siegbahn, The Ziegler-Natta olefin insertion reaction for cationic metals	212 (1993) 353
Jin, S., see J.D. Head	212 (1993) 32
Johnson, K.H., see T.S. Smit	212 (1993) 525
Johnson, P.D., see M. Neeb	212 (1993) 205
Jones, R.B., S.L. Allman, K. Tang, W.R. Garrett and C.H. Chen, Neutralization of negatively charged oligonucleotides	212 (1993) 451
Jullien, S., J. Lemaire, S. Fenistein, M. Heninger, G. Mauclaire and R. Marx, Radiative lifetimes of Xe^+ and Kr^+ in their $^2P_{1/2}$ spin-orbit states	212 (1993) 340
Jungwirth, P. and R. Zahradník, Is the water-induced potential of mean torsion of <i>n</i> -butane transferable to longer <i>n</i> -alkanes?	212 (1993) 211
Kasuya, A., see Y. Saito	212 (1993) 379
Kelly, H.M., see P.W. Fowler	212 (1993) 659
Kilcoyne, A.L.D., see M. Neeb	212 (1993) 205
Kim, B. and K. Yoshihara, $^3\Delta - ^1\Sigma^+$ transition of RbCs observed in a very cold molecular beam	212 (1993) 271
Kleiber, P.D., see L.N. Ding	212 (1993) 499
Klein, U.K.A., see K.A. Al-Hassan	212 (1993) 581
Klobukowski, M., see S. Huzinaga	212 (1993) 260
Kneipp, H., K. Kneipp and F. Seifert, Surface-enhanced hyper-Raman scattering (SEHRS) and surface-enhanced Raman scattering (SERS) by means of mode-locked Ti:sapphire laser excitation	212 (1993) 374
Kneipp, K., see H. Kneipp	212 (1993) 374
Koch, H. and E. Dalgaard, Linear superposition of optimized non-orthogonal Slater determinants for singlet states	212 (1993) 193
Koch, W., see W.P. Kraemer	212 (1993) 631
Konrat, R., G. Zieger and H. Sterk, Directed coherence transfer in nuclear magnetic resonance. Two-dimensional in-phase multiplets in selective correlation spectroscopy	212 (1993) 78
Kraemer, W.P. and W. Koch, A CASSCF-CI study of the ground and low-lying excited electronic states of $C_2H_2^+$	212 (1993) 631
Krämer, U., see K.L. Walther	212 (1993) 96
Krausz, E., see H. Riesen	212 (1993) 347
Kumar, A., P.K. Chowdhury, K.V.S. Rama Rao and J.P. Mittal, IR and UV photolysis of 1,3-cyclohexadiene. Evidence for formation of vibrationally excited 1,3,5-hexatriene	212 (1993) 103
Kuskov, V.L., see G.G. Lazarev	212 (1993) 319
Landuyt, L., see M.T. Nguyen	212 (1993) 543
Langenberg, J.D., see J.C. Pinegar	212 (1993) 458
Lara, F., see G.G. Lazarev	212 (1993) 319
Last, I., see A. Baram	212 (1993) 649
Laukien, F.H., see D.G. Cory	212 (1993) 487
Law, M.M. and J.L. Duncan, Second-order perturbation theory corrections to effective Fermi resonance coupling constants	212 (1993) 172
Lazarev, G.G., V.L. Kuskov, F. Lara, F. García, A. Rieker and P. Tordo, The role of dopant geometry in the photoinduced formation of radical pairs in crystals of 2,6-di- <i>tert</i> -butyl-4-methylphenol and 2,6-di- <i>tert</i> -butylphenol	212 (1993) 319

Leach, C.A., see A. Carrington	212 (1993) 473
Lemaire, J., see S. Jullien	212 (1993) 340
Leung, K.T., see J.F. Ying	212 (1993) 289
Li, F., see L. Xu	212 (1993) 265
Li, H., see Q. Zhu	212 (1993) 403
Li, Q.-S., see A.-C. Tang	212 (1993) 391
Li, Y., M. Honigmann, G. Hirsch and R.J. Buenker, Theoretical study of line broadening in the (3sσ) $^3\Pi_g$ vibrational levels of the O ₂ molecule employing a diabatic CI representation	212 (1993) 185
Liu, A., see D.A. Dolson	212 (1993) 118
Liu, R. and X. Zhou, Comment on "Cyclopentadienylideneketene: theoretical confirmation of a key infrared band"	212 (1993) 702
Lossing, F.P., see J.L. Holmes	212 (1993) 134
Lubitz, W., see A. van der Est	212 (1993) 561
Luckhaus, D., M. Quack and J. Stohner, Femtosecond quantum structure, equilibration and time reversal for the CH-chromophore dynamics in CHD ₂ F	212 (1993) 434
Ma, Y., see M. Neeb	212 (1993) 205
Maas, W.E., see D.G. Cory	212 (1993) 487
MacPhail, R.A., see X. Pan	212 (1993) 64
Maltsev, V.A., O.A. Nerush, S.A. Novopashin and B.A. Selivanov, Anomalous polarizability of fullerene	212 (1993) 480
Marr, A.J., see A. Carrington	212 (1993) 473
Marx, R., see S. Jullien	212 (1993) 340
Mathers, C.P., see J.F. Ying	212 (1993) 289
Matsuoka, O., Reply to Comment on "Segmented contractions of relativistic Gaussian basis sets"	212 (1993) 550
Mauclaire, G., see S. Jullien	212 (1993) 340
Mayer, P.M., see J.L. Holmes	212 (1993) 134
McDowell, A.F., see S. Miyajima	212 (1993) 277
McGlynn, S.P., see U. Asaf	212 (1993) 326
McKoy, V., see J.F. Ying	212 (1993) 289
Meier, Ch. and V. Engel, Electron kinetic energy distributions from multiphoton ionization of Na ₂ with femtosecond laser pulses	212 (1993) 691
Meissner, L., A. Balková and R.J. Bartlett, Multiple solutions of the single-reference coupled-cluster method	212 (1993) 177
Mercouris, T., see C.A. Nicolaides	212 (1993) 685
Miguel, B., see J.M. García de la Vega	212 (1993) 420
Mikhaylova, V.A., see A.I. Ivanov	212 (1993) 697
Misra, T.N., see A.K. Dutta	212 (1993) 637
Mittal, J.P., see A. Kumar	212 (1993) 103
Mittelbach, A., see L. Akselrod	212 (1993) 384
Miyajima, S., A.F. McDowell and R.M. Cotts, Pulsed-field-gradient stimulated-spin-echo NMR study of anisotropic self-diffusion in smectic Ad liquid crystal CBOOA	212 (1993) 277
Morse, M.D., see J.C. Pinegar	212 (1993) 458
Moses, D., see C. Halvorson	212 (1993) 85
Müschenborn, H.-J., see M. Croci	212 (1993) 71

Nagayama, K., see T. Fujiwara	212 (1993) 81
Nath, S., see P.K. Chattaraj	212 (1993) 223
Neel, M., J.-E. Rubensson, M. Biermann, W. Eberhardt, K.J. Randall, J. Feldhaus, A.L.D. Kilcoyne, A.M. Bradshaw, Z. Xu, P.D. Johnson and Y. Ma, Effects of time evolution of coherently excited vibrations in molecular core-hole decay spectra of O ₂	212 (1993) 205
Nerushov, O.A., see V.A. Maltsev	212 (1993) 480
Nguyen, M.T., L. Landuyt and L.G. Vanquickenborne, 1,3-hydrogen shift in phosphaphropenes. Suprafacial sigmatropic rearrangements	212 (1993) 543
Nicolaides, C.A., T. Mercouris and I.D. Petsalakis, Above and below threshold multiphoton dissociation of volcanic ground states. Application to BeH	212 (1993) 685
Nikiforov, A.P. and V.E. Skurat, Kinetics of polyimide etching by supersonic beams consisting of atomic and molecular oxygen mixtures	212 (1993) 43
Nishina, Y., see Y. Saito	212 (1993) 379
Novopashin, S.A., see V.A. Maltsev	212 (1993) 480
Okuda, M., see Y. Saito	212 (1993) 379
Olegário, R.M., see A.D. Buckingham	212 (1993) 253
Orr-Ewing, A.J., see N.E. Shafer	212 (1993) 155
Orr-Ewing, A.J., see W.R. Simpson	212 (1993) 163
Palke, W.E., see G. von Helden	212 (1993) 247
Pan, X. and R.A. MacPhail, A Raman study of cyclopentane-d ₉ pseudorotation dynamics as a function of pressure	212 (1993) 64
Pappalardo, R.R., M. Reguero, M.A. Robb and M. Frish, Calculation of solvatochromic shifts using MC-SCF theory. The n-π* transition of acetone	212 (1993) 12
Park, I.J. and S.I. Woo, Computer simulation of spatial coupling in chemical oscillations of CO oxidation on two Pd(110) single crystals	212 (1993) 505
Payne, M.C., see D.M. Bird	212 (1993) 518
Payne, M.C., see I. Štich	212 (1993) 617
Petrella, G. and L. Cassidei, Atom scattering from disordered surfaces. Theoretical study on the validity of the cross section overlap hypothesis: the case of vacancies on Pt(111)	212 (1993) 512
Petsalakis, I.D., see C.A. Nicolaides	212 (1993) 685
Peyerimhoff, S.D., see M. Carnell	212 (1993) 654
Pinegar, J.C., J.D. Langenberg and M.D. Morse, Spectroscopy of jet-cooled Ag ₂ Au	212 (1993) 458
Poliakoff, M., see A.I. Cooper	212 (1993) 611
Preuss, H., see E. Czuchaj	212 (1993) 534
Pritchard, H.P., see J.F. Ying	212 (1993) 289
Pyne, C.H., see A. Carrington	212 (1993) 473
Quack, M., see D. Luckhaus	212 (1993) 434
Radom, L., see A.P. Scott	212 (1993) 705
Ramamoorthy, A., see T. Fujiwara	212 (1993) 81
Rama Rao, K.V.S., see A. Kumar	212 (1993) 103
Ramiro Diaz, B., P. Wahnon and V. Sidis, A calculated (KrO ₂) ⁺ ground-state potential energy surface	212 (1993) 218
Randall, K.J., see M. Neel	212 (1993) 205

Rebentrost, F., see E. Czuchaj	212 (1993) 534
Reguero, M., see R.R. Pappalardo	212 (1993) 12
Reisfeld, R., see R. Gvishi	212 (1993) 463
Renn, A., see M. Croci	212 (1993) 71
Rieker, A., see G.G. Lazarev	212 (1993) 319
Riesen, H. and E. Krausz, Stark-swept transient hole burning and resonant luminescence line narrowing in $[Zn(2,2'-bipyridine)_3](ClO_4)_2 \cdot Ru(II)$	212 (1993) 347
Righini, R., see R. Torre	212 (1993) 90
Roark, S.E. and K.L. Rowlen, Atomic force microscopy of thin Ag films. Relationship between morphology and optical properties	212 (1993) 50
Robb, M.A., see R.R. Pappalardo	212 (1993) 12
Robert, J.B., see D. Canet	212 (1993) 483
Rosner, B., see I. Ben-Itzhak	212 (1993) 467
Roszak, S. and K. Balasubramanian, First-principle interatomic potentials for the carbon monoxide-platinum reaction	212 (1993) 150
Roth, S., see L. Akselrod	212 (1993) 384
Roux, B., Non-additivity in cation-peptide interactions. A molecular dynamics and ab initio study of Na^+ in the gramicidin channel	212 (1993) 231
Rowlen, K.L., see S.E. Roark	212 (1993) 50
Rubensson, J.-E., see M. Neeb	212 (1993) 205
Rupnik, K., see U. Asaf	212 (1993) 326
Russo, N., see V. Barone	212 (1993) 5
Sadlej, A.J., see P.W. Fowler	212 (1993) 659
Saito, Y., T. Yoshikawa, M. Okuda, N. Fujimoto, S. Yamamoto, K. Wakoh, K. Sumiyama, K. Suzuki, A. Kasuya and Y. Nishina, Iron particles nesting in carbon cages grown by arc discharge	212 (1993) 379
Sannigrahi, A.B., see P.K. Chattaraj	212 (1993) 223
Santa, I., see R. Torre	212 (1993) 90
Šarapatka, T.J., XPS-XAES study of charge transfers at Ni/Al ₂ O ₃ /Al systems	212 (1993) 37
Sarkisov, O.M., see A.A. Iogansen	212 (1993) 604
Schallmoser, G., see N. Caspary	212 (1993) 329
Schettino, V., see C. Taiti	212 (1993) 283
Schmidt, Th., see H. van der Laan	212 (1993) 569
Schreier, K.M., see D.A. Dolson	212 (1993) 118
Scott, A.P. and L. Radom, Reply to Comment on "Cyclopentadienylideneketene: theoretical confirmation of a key infrared band"	212 (1993) 705
Seetula, J.A., see A.A. Iogansen	212 (1993) 604
Seifert, F., see H. Kneipp	212 (1993) 374
Sekine, S. and C. Hirose, Perturbation on intensity profiles of the CO 4pσ K 'Σ ⁺ -3sσ B 'Σ ⁺ (0-0) and 4pπ L 'Π-3sσ B 'Σ ⁺ (0-0) bands	212 (1993) 129
Selivanov, B.A., see V.A. Maltsev	212 (1993) 480
Shafer, N.E., A.J. Orr-Ewing, W.R. Simpson, H. Xu and R.N. Zare, State-to-state differential cross sections from photoinitiated bulb reactions	212 (1993) 155
Shapiro, M., Theory of the continuum excitation-emission spectrum of CH ₃ I	212 (1993) 444
Shaw, A.M., see A. Carrington	212 (1993) 473
Shi, F.G., Nonequilibrium inhomogeneous processes. An alternative mesoscopic description	212 (1993) 421

Sidis, V., see B. Ramiro Diaz	212 (1993) 218
Siegbahn, P.E.M., see V.R. Jensen	212 (1993) 353
Signorini, G.F., see C. Taiti	212 (1993) 283
Simon, J.D., see P. Cong	212 (1993) 367
Simpson, W.R., see N.E. Shafer	212 (1993) 155
Simpson, W.R., A.J. Orr-Ewing and R.N. Zare, State-to-state differential cross sections for the reaction $\text{Cl}({}^2\text{P}_{3/2}) + \text{CH}_4(\nu_3=1, J=1) \rightarrow \text{HCl}(\nu'=1, J') + \text{CH}_3$	212 (1993) 163
Skurat, V.E., see A.P. Nikiforov	212 (1993) 43
Smit, T.S. and K.H. Johnson, Hydrodesulphurization of thiophene by transition metal sulphides. A molecular orbital topology study	212 (1993) 525
Sodupe, M. and C.W. Bauschlicher Jr., A theoretical study of the spectroscopy of SrH_2O^+ and SrNH_3^+	212 (1993) 624
Squires, R.R., see L.S. Sunderlin	212 (1993) 307
Stehlik, D., see A. van der Est	212 (1993) 561
Sterk, H., see R. Konrat	212 (1993) 78
Stich, I., see D.M. Bird	212 (1993) 518
Stich, I., M.C. Payne, A. De Vita, M.J. Gillan and L.J. Clarke, Chemically driven molecular decomposition at semiconductor surfaces	212 (1993) 617
Stickel, R.E., Z. Zhao and P.H. Wine, Branching ratios for hydrogen transfer in the reactions of OD radicals with CH_3SCH_3 and $\text{CH}_3\text{SC}_2\text{H}_5$	212 (1993) 312
Stockman, P.A. and G.A. Blake, HF... Cl_2 . Bending dynamics of an antihydrogen-bonded van der Waals dimer	212 (1993) 298
Stohner, J., see D. Luckhaus	212 (1993) 434
Stoll, H., see E. Czuchaj	212 (1993) 534
Swalley, W.C., see L.N. Ding	212 (1993) 499
Sumiyama, K., see Y. Saito	212 (1993) 379
Sunderlin, L.S. and R.R. Squires, Determination of the $\text{H}_2\text{O}-\text{NO}_2^+$ and $\text{CH}_3\text{O}(\text{H})-\text{NO}_2^+$ bond strengths and the proton affinities of nitric acid and methyl nitrate	212 (1993) 307
Suwayian, A., see K.A. Al-Hassan	212 (1993) 581
Suzuki, K., see Y. Saito	212 (1993) 379
Syage, J.A., Predissociation lifetimes of the $\tilde{\text{B}}$ and $\tilde{\text{C}}$ Rydberg states of CH_3I	212 (1993) 124
Tachikawa, H., Reaction mechanism of the radical isomerization from CH_3O to CH_2OH in frozen methanol. An ab initio MO and RRKM study	212 (1993) 27
Taiti, C., P. Foggi, G.F. Signorini and V. Schettino, Vibrational relaxation of a MnO_4^- impurity mode in KClO_4 crystal	212 (1993) 283
Talapatra, G.B., see A.K. Dutta	212 (1993) 637
Tang, A.-C. and Q.-S. Li, Eigenvalues and eigenfunctions of Hückel Hamiltonian for carbon species with D_p or D_{ph} symmetry	212 (1993) 391
Tang, K., see R.B. Jones	212 (1993) 451
Tekely, P., see D. Canet	212 (1993) 483
Thoma, A., see N. Caspary	212 (1993) 329
Thomsen, C., see L. Akselrod	212 (1993) 384
Timonen, R.S., see A.A. Iogansen	212 (1993) 604
Tokumaru, K., see T. Arai	212 (1993) 597
Tordo, P., see G.G. Lazarev	212 (1993) 319
Torre, R., I. Sánta and R. Righini, Pre-transitional effects in the liquid-plastic phase transition of <i>p</i> -terphenyl	212 (1993) 90

Truttmann, L., see T. Bally	212 (1993) 141
Ugliengo, P., see A.M. Ferrari	212 (1993) 644
Van der Est, A., R. Bittl, E.C. Abresch, W. Lubitz and D. Stehlík, Transient EPR spectroscopy of perdeuterated Zn-substituted reaction centres of <i>Rhodobacter sphaeroides</i> R-26	212 (1993) 561
Van der Laan, H., C. De Caro, Th. Schmidt, R.W. Visschers, R. van Grondelle, G.J.S. Fowler, C.N. Hunter and S. Völker, Excited-state dynamics of mutated antenna complexes of purple bacteria studied by hole-burning	212 (1993) 569
Van Grondelle, R., see H. van der Laan	212 (1993) 569
Vanquickenborne, L.G., see M.T. Nguyen	212 (1993) 543
Viant, M.R., see A. Carrington	212 (1993) 473
Visschers, R.W., see H. van der Laan	212 (1993) 569
Völker, S., see H. van der Laan	212 (1993) 569
Von Helden, G., N.G. Gotts and M.T. Bowers, C_7^+ is cyclic: experimental evidence	212 (1993) 241
Von Helden, G., W.E. Palke and M.T. Bowers, The lowest energy structures of C_7^+ , C_7 and C_7^- . An ab initio study	212 (1993) 247
Wahnon, P., see B. Ramiro Diaz	212 (1993) 218
Wakoh, K., see Y. Saito	212 (1993) 379
Walther, K.L., U. Krämer, H. Hoffmann and A. Wokaun, Electric birefringence in surfactant and polyelectrolyte solutions. Fourier relations between transient and frequency-dependent measurements	212 (1993) 96
Wang, J. and P. Wolynes, Passage through fluctuating geometrical bottlenecks. The general Gaussian fluctuating case	212 (1993) 427
Wang, J.T., see T. Bally	212 (1993) 141
Wang, P., see L. Xu	212 (1993) 265
Wang, X., see Q. Zhu	212 (1993) 403
Wang, Y., see L. Xu	212 (1993) 265
West, Y.D., see A. Carrington	212 (1993) 473
Wild, U.P., see M. Croci	212 (1993) 71
Williams, F., see T. Bally	212 (1993) 141
Wine, P.H., see R.E. Stickel	212 (1993) 312
Winstead, C., see J.F. Ying	212 (1993) 289
Wokaun, A., see K.L. Walther	212 (1993) 96
Wolf, I., see H. Ernst	212 (1993) 588
Wolynes, P., see J. Wang	212 (1993) 427
Woo, S.I., see I.J. Park	212 (1993) 505
Woźniak, K., see S.T. Howard	212 (1993) 1
Wu, R., see C. Halvorson	212 (1993) 85
Wudl, F., see C. Halvorson	212 (1993) 85
Wurfel, B.E., see N. Caspary	212 (1993) 329
Xu, H., see N.E. Shafer	212 (1993) 155
Xu, L., Y. Wang, P. Wang and F. Li, High-resolution (2+1) multiphoton ionization spectroscopy of Br_2	212 (1993) 265

Xu, Z., see M. Neeb	212 (1993) 205
Yamamoto, S., The microwave spectrum of SO in the $b\ ^1\Sigma^+$ electronic state	212 (1993) 113
Yamamuro, S., see Y. Saito	212 (1993) 379
Yeates, A.T., see G.P. Das	212 (1993) 671
Yen, W.M., see H. Eilers	212 (1993) 109
Ying, J.F., C.P. Mathers, K.T. Leung, H.P. Pritchard, C. Winstead and V. McKoy, Observation of a "new" quadrupole transition at 7.7 eV in CF ₃ Cl by momentum-transfer-resolved electron energy loss spectroscopy	212 (1993) 289
Yoshihara, K., see B. Kim	212 (1993) 271
Yoshikawa, T., see Y. Saito	212 (1993) 379
Young, M.A., see L.N. Ding	212 (1993) 499
Zahradník, R., see P. Jungwirth	212 (1993) 211
Zare, R.N., see N.E. Shafer	212 (1993) 155
Zare, R.N., see W.R. Simpson	212 (1993) 163
Zhao, Z., see R.E. Stickel	212 (1993) 312
Zhou, X., see R. Liu	212 (1993) 702
Zhu, Q., H. Li and X. Wang, Anharmonicity: a route to vibrational localization	212 (1993) 403
Zieger, G., see R. Konrat	212 (1993) 78
Zimont, E.V., see A.A. Iogansen	212 (1993) 604
Zitserman, V.Yu., see A.M. Berezhkovskii	212 (1993) 413

